

Name: _____

Pike / Kolb

Optional Practice Packet

Unit 5

Lessons 1

2

3 A and B

* answer key available in
class or on wikispace! *

Reducing Improper Fractions (A)

Instructions: Reduce each fraction to its lowest terms. Change any improper fractions to mixed numbers.

$$\frac{6}{21} =$$

$$\frac{14}{8} =$$

$$\frac{105}{27} =$$

$$\frac{14}{4} =$$

$$\frac{12}{14} =$$

$$\frac{93}{24} =$$

$$\frac{145}{40} =$$

$$\frac{45}{25} =$$

$$\frac{6}{15} =$$

$$\frac{8}{36} =$$

$$\frac{8}{14} =$$

$$\frac{2}{18} =$$

$$\frac{9}{6} =$$

$$\frac{85}{25} =$$

$$\frac{129}{36} =$$

$$\frac{21}{27} =$$

$$\frac{22}{10} =$$

$$\frac{42}{15} =$$

$$\frac{3}{36} =$$

$$\frac{28}{12} =$$

$$\frac{44}{32} =$$

$$\frac{34}{24} =$$

$$\frac{52}{24} =$$

$$\frac{15}{9} =$$

$$\frac{21}{24} =$$

$$\frac{87}{24} =$$

$$\frac{40}{14} =$$

Converting Mixed Numbers to Fractions (A)

Write the improper fraction equivalent for each mixed number.

$$9 \frac{6}{10} = \text{---}$$

$$2 \frac{2}{9} = \text{---}$$

$$3 \frac{3}{10} = \text{---}$$

$$10 \frac{4}{8} = \text{---}$$

$$4 \frac{3}{7} = \text{---}$$

$$9 \frac{1}{3} = \text{---}$$

$$10 \frac{1}{2} = \text{---}$$

$$7 \frac{1}{4} = \text{---}$$

$$4 \frac{7}{9} = \text{---}$$

$$9 \frac{5}{6} = \text{---}$$

$$2 \frac{5}{9} = \text{---}$$

$$10 \frac{5}{9} = \text{---}$$

$$8 \frac{6}{9} = \text{---}$$

$$4 \frac{2}{3} = \text{---}$$

$$2 \frac{4}{7} = \text{---}$$

$$7 \frac{4}{10} = \text{---}$$

$$10 \frac{2}{4} = \text{---}$$

$$2 \frac{1}{7} = \text{---}$$

$$1 \frac{2}{3} = \text{---}$$

$$10 \frac{1}{5} = \text{---}$$

$$3 \frac{6}{9} = \text{---}$$

$$2 \frac{1}{6} = \text{---}$$

$$1 \frac{3}{5} = \text{---}$$

$$10 \frac{1}{7} = \text{---}$$

$$5 \frac{1}{2} = \text{---}$$

$$6 \frac{1}{2} = \text{---}$$

$$3 \frac{3}{4} = \text{---}$$

$$6 \frac{3}{5} = \text{---}$$

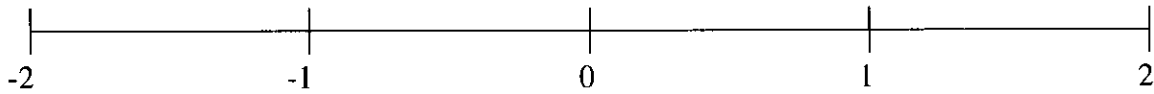
$$4 \frac{1}{2} = \text{---}$$

$$8 \frac{1}{7} = \text{---}$$

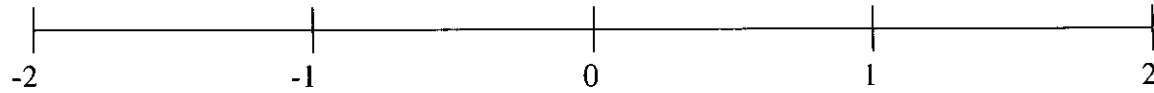
Ordering Fractions (A)

Order each set of fractions using the number line.

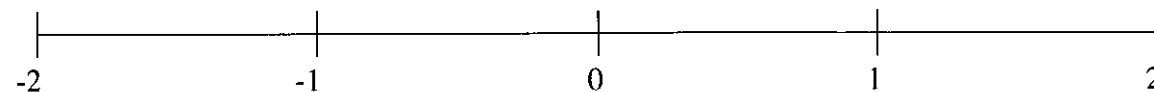
$$\frac{3}{10}, -1\frac{1}{2}, 1\frac{4}{5}, -1\frac{4}{5}, 1\frac{1}{5}, -\frac{1}{2}, -\frac{9}{10}, -\frac{1}{5}$$



$$1\frac{4}{5}, \frac{1}{2}, 1\frac{1}{2}, \frac{4}{5}, 1\frac{1}{5}, -\frac{4}{5}, -1\frac{1}{2}, -\frac{2}{5}$$



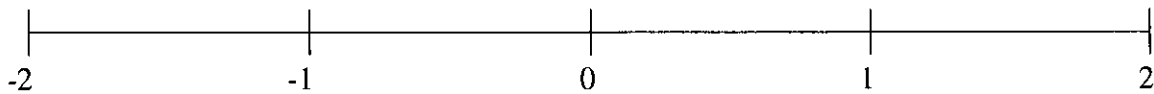
$$-\frac{1}{5}, 1\frac{9}{10}, \frac{4}{5}, 1\frac{1}{2}, 1\frac{1}{5}, -1\frac{1}{2}, -1\frac{4}{5}, \frac{1}{2}$$



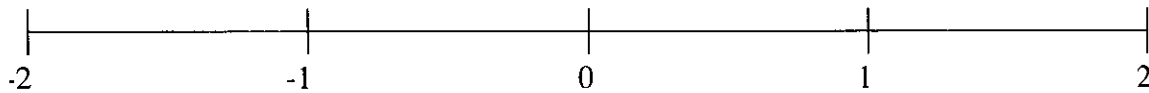
Ordering Fractions (A)

Order each set of fractions using the number line.

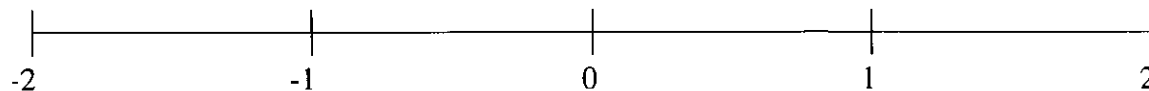
$$-1\frac{5}{6}, \frac{2}{3}, 1\frac{1}{3}, -1\frac{1}{12}, \frac{3}{8}, -\frac{2}{3}, \frac{1}{8}, -1\frac{1}{2}$$



$$\frac{2}{3}, \frac{1}{6}, 1\frac{2}{3}, -1\frac{1}{2}, -\frac{1}{2}, -1\frac{1}{8}, -1\frac{5}{6}, -\frac{1}{6}$$



$$-1\frac{3}{4}, 1\frac{5}{8}, \frac{1}{6}, 1\frac{5}{6}, 1\frac{1}{3}, \frac{1}{2}, \frac{5}{6}, -\frac{1}{4}$$



Name : _____

Score : _____

Teacher : Lesson 2

Date : _____

Converting Between Percents, Decimals, and Fractions

Convert Decimal to Fraction

$0.14 =$

$0.65 =$

$0.793 =$

$0.49 =$

$0.22 =$

$1.58 =$

$0.364 =$

$1.9 =$

$0.59 =$

$0.16 =$

$0.354 =$

$1.87 =$

$0.532 =$

$0.717 =$

$0.71 =$

Convert Fraction to Decimal

$\frac{13}{10} =$

$\frac{14}{20} =$

$\frac{14}{10} =$

$\frac{72}{50} =$

$\frac{7}{16} =$

$\frac{7}{8} =$

$\frac{24}{25} =$

$\frac{23}{40} =$

$\frac{5}{8} =$

$\frac{9}{25} =$

$\frac{11}{20} =$

$\frac{17}{25} =$

$\frac{7}{10} =$

$\frac{6}{50} =$

$\frac{11}{16} =$

Place in order least to greatest:

A. $-\frac{1}{4}, 0.3, -0.7, 2\frac{1}{2}, -1$

B. $1.1, 1\frac{3}{8}, -2\frac{1}{5}, -2\frac{1}{4}, \frac{3}{4}, 0.6$



Adding Mixed Fractions (D)

Find the value of each expression in lowest terms.

1. $1\frac{1}{2} + 3\frac{17}{18}$

5. $3\frac{1}{2} + 3\frac{1}{3}$

9. $5\frac{1}{2} + 3\frac{1}{6}$

2. $2\frac{2}{3} + 2\frac{5}{6}$

6. $2\frac{1}{2} + 6\frac{9}{10}$

10. $5\frac{1}{9} + 2\frac{1}{3}$

3. $3\frac{5}{6} + 2\frac{3}{4}$

7. $2\frac{1}{3} + 25\frac{1}{3}$

11. $5\frac{3}{10} + 7\frac{1}{5}$

4. $2\frac{2}{3} + 6\frac{7}{12}$

8. $1\frac{4}{7} + 4\frac{11}{14}$

12. $8\frac{1}{9} + 1\frac{5}{9}$

Subtracting Mixed Fractions (A)

Find the value of each expression in lowest terms.

1. $5\frac{2}{3} - 1\frac{1}{3}$

5. $3\frac{1}{11} - 1\frac{1}{6}$

9. $4\frac{7}{9} - 3\frac{4}{7}$

2. $3\frac{1}{3} - 2\frac{4}{11}$

6. $9\frac{2}{3} - 3\frac{1}{3}$

10. $3\frac{1}{5} - 1\frac{1}{6}$

3. $7\frac{2}{3} - 1\frac{2}{3}$

7. $3\frac{3}{4} - 1\frac{5}{8}$

11. $5\frac{1}{6} - 3\frac{11}{12}$

4. $5\frac{3}{4} - 5\frac{1}{2}$

8. $4\frac{3}{5} - 2\frac{5}{6}$

12. $1\frac{1}{3} - 1\frac{1}{8}$

Adding and Subtracting Mixed Fractions (A)

Find the value of each expression in lowest terms.

1. $2\frac{1}{5} + 1\frac{3}{4}$

5. $1\frac{1}{2} + 2\frac{3}{5}$

9. $3\frac{1}{2} - 1\frac{1}{2}$

2. $3\frac{1}{2} - 2\frac{2}{3}$

6. $3\frac{1}{2} - 2\frac{5}{9}$

10. $5\frac{1}{2} + 5\frac{1}{4}$

3. $3\frac{1}{2} - 3\frac{1}{2}$

7. $2\frac{3}{4} + 1\frac{1}{5}$

11. $1\frac{10}{11} - 1\frac{1}{3}$

4. $5\frac{3}{4} - 5\frac{1}{4}$

8. $3\frac{1}{4} - 2\frac{3}{8}$

12. $1\frac{5}{12} + 3\frac{1}{3}$

Name: _____

like / no ID

Optional Practice Packet

Unit 5

Lessons

1

2

3 A and B

* answer key available in
class or on wikispace! *

Reducing Improper Fractions (A)

Instructions: Reduce each fraction to its lowest terms. Change any improper fractions to mixed numbers.

$$\frac{6}{21} = \frac{2}{7}$$

$$\frac{14}{8} = 1 \frac{3}{4}$$

$$\frac{105}{27} = 3 \frac{8}{9}$$

$$\frac{14}{4} = 3 \frac{1}{2}$$

$$\frac{12}{14} = \frac{6}{7}$$

$$\frac{93}{24} = 3 \frac{7}{8}$$

$$\frac{145}{40} = 3 \frac{5}{8}$$

$$\frac{45}{25} = 1 \frac{4}{5}$$

$$\frac{6}{15} = \frac{2}{5}$$

$$\frac{8}{36} = \frac{2}{9}$$

$$\frac{8}{14} = \frac{4}{7}$$

$$\frac{2}{18} = \frac{1}{9}$$

$$\frac{9}{6} = 1 \frac{1}{2}$$

$$\frac{85}{25} = 3 \frac{2}{5}$$

$$\frac{129}{36} = 3 \frac{7}{12}$$

$$\frac{21}{27} = \frac{7}{9}$$

$$\frac{22}{10} = 2 \frac{1}{5}$$

$$\frac{42}{15} = 2 \frac{4}{5}$$

$$\frac{3}{36} = \frac{1}{12}$$

$$\frac{28}{12} = 2 \frac{1}{3}$$

$$\frac{44}{32} = 1 \frac{3}{8}$$

$$\frac{34}{24} = 1 \frac{5}{12}$$

$$\frac{52}{24} = 2 \frac{1}{6}$$

$$\frac{15}{9} = 1 \frac{2}{3}$$

$$\frac{21}{24} = \frac{7}{8}$$

$$\frac{87}{24} = 3 \frac{5}{8}$$

$$\frac{40}{14} = 2 \frac{6}{7}$$

Converting Mixed Numbers to Fractions (A) Answers

Write the improper fraction equivalent for each mixed number.

$$9 \frac{6}{10} = \frac{96}{10}$$

$$2 \frac{2}{9} = \frac{20}{9}$$

$$3 \frac{3}{10} = \frac{33}{10}$$

$$10 \frac{4}{8} = \frac{84}{8}$$

$$4 \frac{3}{7} = \frac{31}{7}$$

$$9 \frac{1}{3} = \frac{28}{3}$$

$$10 \frac{1}{2} = \frac{21}{2}$$

$$7 \frac{1}{4} = \frac{29}{4}$$

$$4 \frac{7}{9} = \frac{43}{9}$$

$$9 \frac{5}{6} = \frac{59}{6}$$

$$2 \frac{5}{9} = \frac{23}{9}$$

$$10 \frac{5}{9} = \frac{95}{9}$$

$$8 \frac{6}{9} = \frac{78}{9}$$

$$4 \frac{2}{3} = \frac{14}{3}$$

$$2 \frac{4}{7} = \frac{18}{7}$$

$$7 \frac{4}{10} = \frac{74}{10}$$

$$10 \frac{2}{4} = \frac{42}{4}$$

$$2 \frac{1}{7} = \frac{15}{7}$$

$$1 \frac{2}{3} = \frac{5}{3}$$

$$10 \frac{1}{5} = \frac{51}{5}$$

$$3 \frac{6}{9} = \frac{33}{9}$$

$$2 \frac{1}{6} = \frac{13}{6}$$

$$1 \frac{3}{5} = \frac{8}{5}$$

$$10 \frac{1}{7} = \frac{71}{7}$$

$$5 \frac{1}{2} = \frac{11}{2}$$

$$6 \frac{1}{2} = \frac{13}{2}$$

$$3 \frac{3}{4} = \frac{15}{4}$$

$$6 \frac{3}{5} = \frac{33}{5}$$

$$4 \frac{1}{2} = \frac{9}{2}$$

$$8 \frac{1}{7} = \frac{57}{7}$$

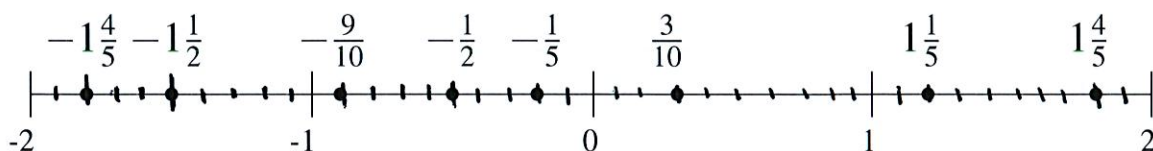
Ordering Fractions (A) Answers

Order each set of fractions using the number line.

$$\frac{3}{10}, -1\frac{1}{2}, 1\frac{4}{5}, -1\frac{4}{5}, 1\frac{1}{5}, -\frac{1}{2}, -\frac{9}{10}, -\frac{1}{5}$$

com. den = 10

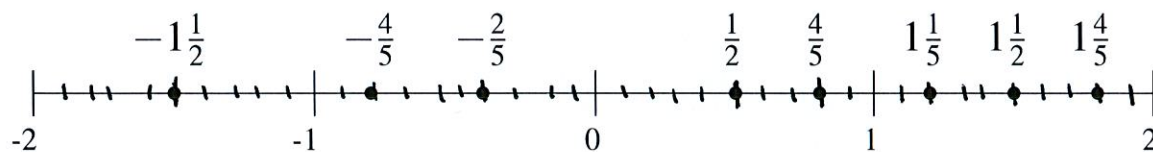
$$-1\frac{4}{5}, -1\frac{1}{2}, -\frac{9}{10}, -\frac{1}{2}, -\frac{1}{5}, \frac{3}{10}, 1\frac{1}{5}, 1\frac{4}{5}$$



$$1\frac{4}{5}, \frac{1}{2}, 1\frac{1}{2}, \frac{4}{5}, 1\frac{1}{5}, -\frac{4}{5}, -1\frac{1}{2}, -\frac{2}{5}$$

com den = 10

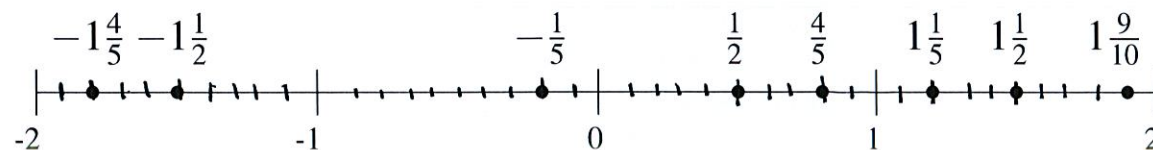
$$-1\frac{1}{2}, -\frac{4}{5}, -\frac{2}{5}, \frac{1}{2}, \frac{4}{5}, 1\frac{1}{5}, 1\frac{1}{2}, 1\frac{4}{5}$$



$$-\frac{1}{5}, 1\frac{9}{10}, \frac{4}{5}, 1\frac{1}{2}, 1\frac{1}{5}, -1\frac{1}{2}, -1\frac{4}{5}, \frac{1}{2}$$

com. den. = 10

$$-1\frac{4}{5}, -1\frac{1}{2}, -\frac{1}{5}, \frac{1}{2}, \frac{4}{5}, 1\frac{1}{5}, 1\frac{1}{2}, 1\frac{9}{10}$$

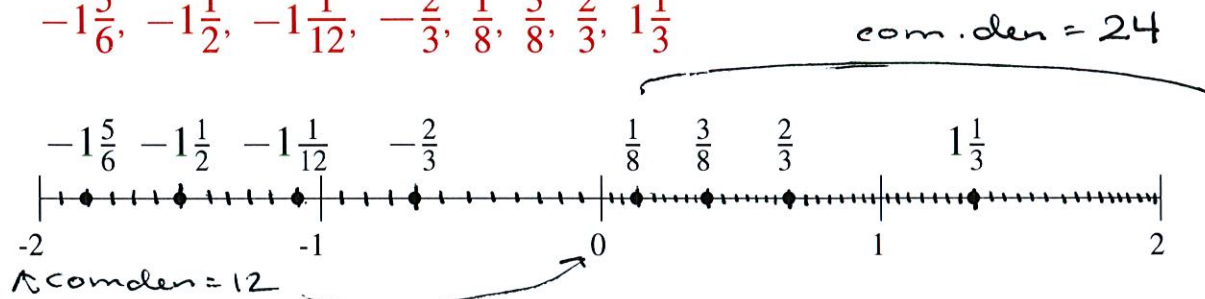


Ordering Fractions (A) Answers

Order each set of fractions using the number line.

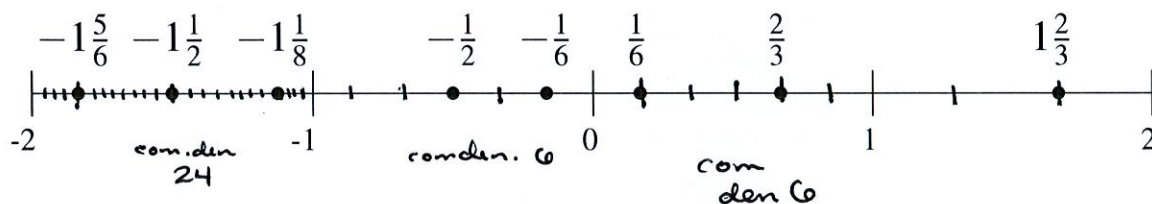
$$-1\frac{5}{6}, \frac{2}{3}, 1\frac{1}{3}, -1\frac{1}{12}, \frac{3}{8}, -\frac{2}{3}, \frac{1}{8}, -1\frac{1}{2}$$

$$-1\frac{5}{6}, -1\frac{1}{2}, -1\frac{1}{12}, -\frac{2}{3}, \frac{1}{8}, \frac{3}{8}, \frac{2}{3}, 1\frac{1}{3}$$



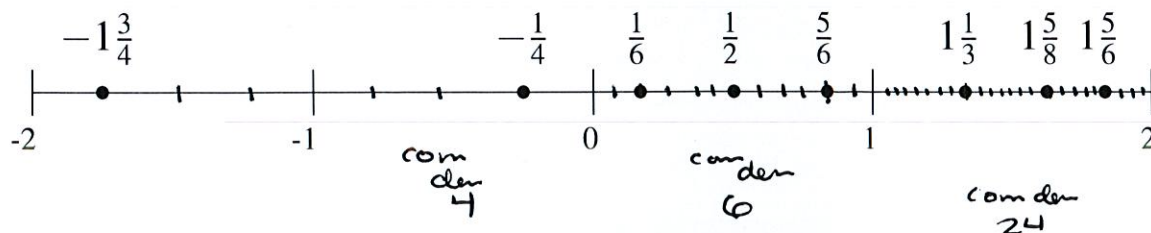
$$\frac{2}{3}, \frac{1}{6}, 1\frac{2}{3}, -1\frac{1}{2}, -\frac{1}{2}, -1\frac{1}{8}, -1\frac{5}{6}, -\frac{1}{6}$$

$$-1\frac{5}{6}, -1\frac{1}{2}, -1\frac{1}{8}, -\frac{1}{2}, -\frac{1}{6}, \frac{1}{6}, \frac{2}{3}, 1\frac{2}{3}$$



$$-1\frac{3}{4}, 1\frac{5}{8}, \frac{1}{6}, 1\frac{5}{6}, 1\frac{1}{3}, \frac{1}{2}, \frac{5}{6}, -\frac{1}{4}$$

$$-1\frac{3}{4}, -\frac{1}{4}, \frac{1}{6}, \frac{1}{2}, \frac{5}{6}, 1\frac{1}{3}, 1\frac{5}{8}, 1\frac{5}{6}$$



Name : _____

Score : _____

Teacher : Lesson 2

Date : _____

Converting Between Percents, Decimals, and Fractions**Convert Decimal to Fraction**

$0.14 = \frac{14}{100} = \frac{7}{50}$

$0.65 = \frac{65}{100} = \frac{13}{20}$

$0.793 = \frac{793}{1000}$

$0.49 = \frac{49}{100}$

$0.22 = \frac{22}{100} = \frac{11}{50}$

$1.58 = 1\frac{29}{50}$

$0.364 = \frac{364}{1000} = \frac{91}{250}$

$1.9 = \frac{19}{10}$

$0.59 = \frac{59}{100}$

$0.16 = \frac{4}{25}$

$0.354 = \frac{177}{500}$

$1.87 = 1\frac{87}{100}$

$0.532 = \frac{532}{1000} = \frac{133}{250}$

$0.717 = \frac{717}{1000}$

$0.71 = \frac{71}{100}$

Convert Fraction to Decimal

$\frac{13}{10} = 1.3$

$\frac{14}{20} = 0.7$

$\frac{14}{10} = 1.4$

$\frac{72}{50} = 1.44$

$\frac{7}{16} = 0.4375$

$\frac{7}{8} = 0.875$

$\frac{24}{25} = 0.96$

$\frac{23}{40} = 0.575$

$\frac{5}{8} = 0.625$

$\frac{9}{25} = 0.36$

$\frac{11}{20} = 0.55$

$\frac{17}{25} = 0.68$

$\frac{7}{10} = 0.7$

$\frac{6}{50} = 0.12$

$\frac{11}{16} = 0.6875$

Place in order least to greatest:

A. $-\frac{1}{4}, 0.3, -0.7, 2\frac{1}{2}, -1$

$$[-1, -0.7, -\frac{1}{4}, 0.3, 2\frac{1}{2}]$$

B. $1.1, 1\frac{3}{8}, -2\frac{1}{5}, -2\frac{1}{4}, \frac{3}{4}, 0.6$

$$-2\frac{1}{4}, -2\frac{1}{5}, 0.6, \frac{3}{4}, 1.1, 1\frac{3}{8}$$



Adding Mixed Fractions (D) Answers

Find the value of each expression in lowest terms.

$$\begin{aligned} 1. \quad & 1\frac{1}{2} + 3\frac{17}{18} \\ & = \frac{49}{9} = 5\frac{4}{9} \end{aligned}$$

$$\begin{aligned} 5. \quad & 3\frac{1}{2} + 3\frac{1}{3} \\ & = \frac{41}{6} = 6\frac{5}{6} \end{aligned}$$

$$\begin{aligned} 9. \quad & 5\frac{1}{2} + 3\frac{1}{6} \\ & = \frac{26}{3} = 8\frac{2}{3} \end{aligned}$$

$$\begin{aligned} 2. \quad & 2\frac{2}{3} + 2\frac{5}{6} \\ & = \frac{11}{2} = 5\frac{1}{2} \end{aligned}$$

$$\begin{aligned} 6. \quad & 2\frac{1}{2} + 6\frac{9}{10} \\ & = \frac{47}{5} = 9\frac{2}{5} \end{aligned}$$

$$\begin{aligned} 10. \quad & 5\frac{1}{9} + 2\frac{1}{3} \\ & = \frac{67}{9} = 7\frac{4}{9} \end{aligned}$$

$$\begin{aligned} 3. \quad & 3\frac{5}{6} + 2\frac{3}{4} \\ & = \frac{79}{12} = 6\frac{7}{12} \end{aligned}$$

$$\begin{aligned} 7. \quad & 2\frac{1}{3} + 25\frac{1}{3} \\ & = \frac{83}{3} = 27\frac{2}{3} \end{aligned}$$

$$\begin{aligned} 11. \quad & 5\frac{3}{10} + 7\frac{1}{5} \\ & = \frac{25}{2} = 12\frac{1}{2} \end{aligned}$$

$$\begin{aligned} 4. \quad & 2\frac{2}{3} + 6\frac{7}{12} \\ & = \frac{37}{4} = 9\frac{1}{4} \end{aligned}$$

$$\begin{aligned} 8. \quad & 1\frac{4}{7} + 4\frac{11}{14} \\ & = \frac{89}{14} = 6\frac{5}{14} \end{aligned}$$

$$\begin{aligned} 12. \quad & 8\frac{1}{9} + 1\frac{5}{9} \\ & = \frac{29}{3} = 9\frac{2}{3} \end{aligned}$$

Subtracting Mixed Fractions (A) Answers

Find the value of each expression in lowest terms.

$$\begin{aligned} 1. \quad & 5\frac{2}{3} - 1\frac{1}{3} \\ & = \frac{13}{3} = 4\frac{1}{3} \end{aligned}$$

$$\begin{aligned} 5. \quad & 3\frac{1}{11} - 1\frac{1}{6} \\ & = \frac{127}{66} = 1\frac{61}{66} \end{aligned}$$

$$\begin{aligned} 9. \quad & 4\frac{7}{9} - 3\frac{4}{7} \\ & = \frac{76}{63} = 1\frac{13}{63} \end{aligned}$$

$$\begin{aligned} 2. \quad & 3\frac{1}{3} - 2\frac{4}{11} \\ & = \frac{32}{33} \end{aligned}$$

$$\begin{aligned} 6. \quad & 9\frac{2}{3} - 3\frac{1}{3} \\ & = \frac{19}{3} = 6\frac{1}{3} \end{aligned}$$

$$\begin{aligned} 10. \quad & 3\frac{1}{5} - 1\frac{1}{6} \\ & = \frac{61}{30} = 2\frac{1}{30} \end{aligned}$$

$$\begin{aligned} 3. \quad & 7\frac{2}{3} - 1\frac{2}{3} \\ & = 6 \end{aligned}$$

$$\begin{aligned} 7. \quad & 3\frac{3}{4} - 1\frac{5}{8} \\ & = \frac{17}{8} = 2\frac{1}{8} \end{aligned}$$

$$\begin{aligned} 11. \quad & 5\frac{1}{6} - 3\frac{11}{12} \\ & = \frac{5}{4} = 1\frac{1}{4} \end{aligned}$$

$$\begin{aligned} 4. \quad & 5\frac{3}{4} - 5\frac{1}{2} \\ & = \frac{1}{4} \end{aligned}$$

$$\begin{aligned} 8. \quad & 4\frac{3}{5} - 2\frac{5}{6} \\ & = \frac{53}{30} = 1\frac{23}{30} \end{aligned}$$

$$\begin{aligned} 12. \quad & 1\frac{1}{3} - 1\frac{1}{8} \\ & = \frac{5}{24} \end{aligned}$$

Adding and Subtracting Mixed Fractions (A) Answers

Find the value of each expression in lowest terms.

$$\begin{aligned} 1. \quad & 2\frac{1}{5} + 1\frac{3}{4} \\ & = \frac{79}{20} = 3\frac{19}{20} \end{aligned}$$

$$\begin{aligned} 5. \quad & 1\frac{1}{2} + 2\frac{3}{5} \\ & = \frac{41}{10} = 4\frac{1}{10} \end{aligned}$$

$$\begin{aligned} 9. \quad & 3\frac{1}{2} - 1\frac{1}{2} \\ & = 2 \end{aligned}$$

$$\begin{aligned} 2. \quad & 3\frac{1}{2} - 2\frac{2}{3} \\ & = \frac{5}{6} \end{aligned}$$

$$\begin{aligned} 6. \quad & 3\frac{1}{2} - 2\frac{5}{9} \\ & = \frac{17}{18} \end{aligned}$$

$$\begin{aligned} 10. \quad & 5\frac{1}{2} + 5\frac{1}{4} \\ & = \frac{43}{4} = 10\frac{3}{4} \end{aligned}$$

$$\begin{aligned} 3. \quad & 3\frac{1}{2} - 3\frac{1}{2} \\ & = 0 \end{aligned}$$

$$\begin{aligned} 7. \quad & 2\frac{3}{4} + 1\frac{1}{5} \\ & = \frac{79}{20} = 3\frac{19}{20} \end{aligned}$$

$$\begin{aligned} 11. \quad & 1\frac{10}{11} - 1\frac{1}{3} \\ & = \frac{19}{33} \end{aligned}$$

$$\begin{aligned} 4. \quad & 5\frac{3}{4} - 5\frac{1}{4} \\ & = \frac{1}{2} \end{aligned}$$

$$\begin{aligned} 8. \quad & 3\frac{1}{4} - 2\frac{3}{8} \\ & = \frac{7}{8} \end{aligned}$$

$$\begin{aligned} 12. \quad & 1\frac{5}{12} + 3\frac{1}{3} \\ & = \frac{19}{4} = 4\frac{3}{4} \end{aligned}$$